Environmental Fate & Effects Division PESTICIDE ENVIRONMENTAL FATE ONE LINE SUMMARY

TRICLOPYR

Last Update on October 11, 1996

[S] = Supplemental Study [U] = USDA Data [V] = Validated Study

Date: Section Head: LOGOUT Reviewer:

Common Name: TRICLOPYR

Smiles Code:Cl-c(nc(c1Cl)OCC(=0)0)c(Cl)c1

CAS #:55335-06-3 PC Code # :116001

Caswell #:

Chem. Name :3,5,6-TRICHLORO-2-PYRIDINYLOXYACETIC ACID

Action Type:SYSTEMIC HERBICIDE

Trade Names: Acid is for manufacturing use only; formulated to TEA & BEE (Formul'tn):TRIETHYLAMINE SALT (GARLON 3A); BUTOXYETHYL ESTER (TURFLON) Physical State: Fluffy solid.

:CONTROL OF WOODY PLANTS AND BROADLEAF WEEDS ON RIGHTS-OF-WAY

Patterns : FORESTS, INDUSTRIAL SITES, FENCEROWS, AND LAWNS

(% Usage) :

Empirical Form: C7H4Cl3NO3

Vapor Pressure: 1.26E -6 Torr 256.47 Molecular Wqt.:

Boiling Point: 290 °C dec 148-150 °C°C Melting Point :

°C pKa: 2.68 -0.69Log Kow :

(calc'd) 9.66E-10 Atm. M3/Mol (Measured) Ė Henry's

Comments Solubility in ... 4.40E @25.0 °C ppm Water

@25.0 °C 9.89E ppm Acetone °C E @ ppm Acetonitrile ٥C E ppm Benzene @25.0 °C 0.27E Chloroform ppm ٥C E ppm Ethanol °C. E Methanol ppm °C Ε ppm Toluene

٥C E mqq Xylene @25.0 °C 3.07E ppm

1-Octanol @25.0 °C Hexane 41.00E ppm

Hydrolysis (161-1)

[V] pH 5.0:STABLE (MRID 41879601)

[V] pH 7.0:STABLE

9.0:STABLE [V] pH [] Hq

[] pH

[] Hq

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[V] Water:8-9 HR: [S] :1.7 da	, -3, -4) s in natural l ys in river wa	light (MRID ater (MRID	41732201 & 117322 & 424	42411804) 111804)	
[]:		•			
[] Soil :No acc	eptable data				
Aerobic Soil Meta [S] 79-361 DAYS [S] < 50 DAYS, [V] 8 DAYS IN S [] DEGRADATES [] (MRID 40346 []	@ 15 °C in THREE SOIL ILT LOAM, 8 D ARE TCP AND 3	S, @ 25 and AYS IN SILT	Y CLAY LOAM	SOIL @ 25 XYPYRIDINE	°C
[]	•				
Anaerobic Soil Me [S] 3.5 YEARS [] [] [] [] [] [] [] []	tabolism (162	-2)			
Anaerobic Aquatic [V] TRICLOPYR E [] TRICLOPYR I [] [] [] [] [] [] []	: Metabolism (BEE DEGRADED T S STABLE IN T	O TRICLOPYR	ACID IN <c AM SOILS @</c 	NE DAY, TH 25°C (MRII	EN ACID) 151967)
Aerobic Aquatic M [V] 142 DAYS IN [] ONLY DEGRAM [] [] [] [] []	Metabolism (16 N SILTY CLAY S DATE IS TCP at	SOIL:WATER S	SYSTEM @ 24- blied (MRID	-26°C; 40479101)	

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[V] [V]	WINDOWE TIO	N COEFFICIEN	(Kd) (163- IS	1)	•		*
	0.975 i	n KALKASDA SZ	AND (% OC	0.73; Ko	c 134 mL/	⁄ā)	
[V]		n LONDO SdLm	20 %) 20 %)	2.25; Ko	C 25 ML/9	4) 1)	
[V]		n COMMERCE S: n MAHOUN CLm		1.38; Ko	С 25 ШШ/S	4) }/	
[V]		ID 40749801)	(* 00	1.50, 10	C 33 11m/ 5	37	
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Soil	Rf Factors	(163-1)		•			
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Labo	ratory Vola	tility (163-	2)				
L 3							
Fiel	d Volatilit	y (163-3)	: 				
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[]	Triclopyr dissipat	eld Dissipati cacid is not tion informat see 116002 an	used in a ion for T	any typic EA salt a	ınd BEE e	se produc ster form	t; for ulations
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Long-Term Soil Dissipati	ion (164-5)			
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1 1				
Accumulation in Rotation	nal Crops, Confined (165-1)		
[]			•	

Accumulation in Rotational Crops, Field (165-2)

[S] ACCUM. IN LETTUCE, TURNIPS, GREEN BEANS, SOYBEANS, AND WHEAT

[S] AT CONCS. AS HIGH AS 0.153

Accumulation in Irrigated Crops (165-3) r 1

Bioaccumulation in Fish (165-4) BLUEGILL SUNFISH BCF: EDIBLE 0.03 X; WHOLE 1.08 X [S]

Bioaccumulation in Non-Target Organisms (165-5)

Ground Water Monitoring, Prospective (166-1)

Ground Water Monitoring, Small Scale Retrospective (166-2)

Ground Water Monitoring, Large Scale Retrospective (166-3) []

Ground Water Monitoring, Miscellaneous Data (158.75)

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Field Runoff (16' [] [] [] []	7-1)		
Surface Water Mon [] [] [] []	nitoring	(167-2	2)
Spray Drift, Dro [] [] [] []	plet Spec	trum	(201-1)
<pre>Spray Drift, Fie [] [] [] []</pre>	ld Evalua	ition	(202-1)

Degradation Products

> DEGRADATION PRODUCTS: 3,5,6-trichloro-2-pyridinol (TCP) (26% of applied)
3,5,6-trichloro-2-methoxypyridine (TMP) (8% of applied) (MRIDs 40346304 & 92189054)
> T1/2 for the trichloropyridinol in various soils ranged from 8 to 279 days; eight soils showed T1/2 = < 50 days, while 12 soils showed < 90 days.
> T1/2 for the methoxypyridine had T1/2 of about 50 days in two soils.
TCP is very mobile (Kds 0.53-1.95 mL/g) MRID 42493901

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Comments

-Dissipation studies, flawed because they were limited to the 0-6" depth, indicated a half-life of 20 days or less.

References: EFGWB Chemical File Writer: PJH, MIR, JLM, SKS